

WE BRING IT ALL TOGETHER



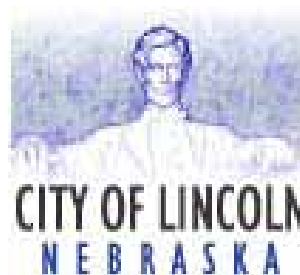
# Public Meeting No. 1 Southwest Wastewater Facility Siting Study Lincoln, Nebraska

February 16, 2006

5:00 to 7:00 pm



**OLSSON ASSOCIATES**  
ENGINEERS • PLANNERS • SCIENTISTS • SURVEYORS



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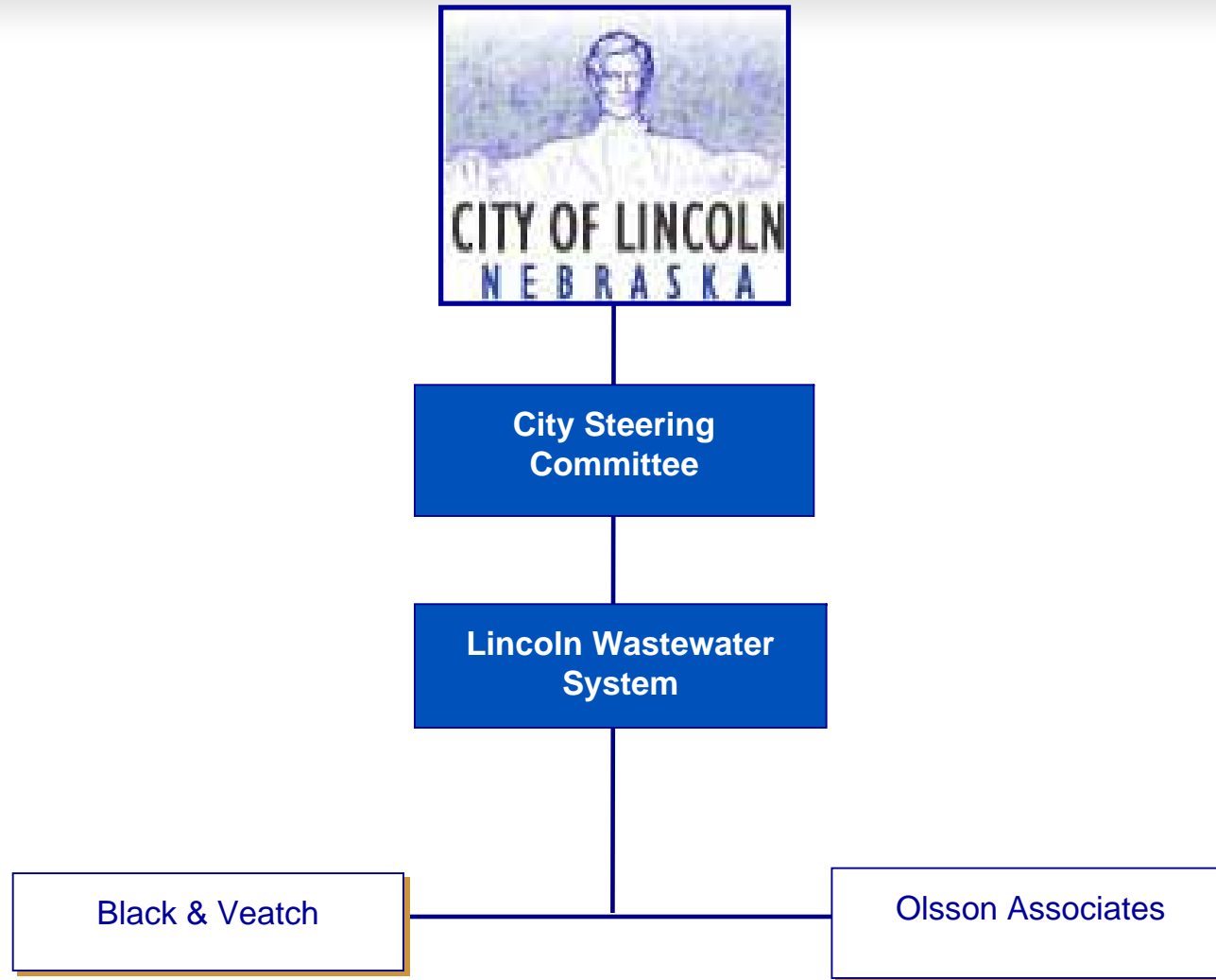


# Agenda

- Welcome and Introductions
- Why Are We Meeting Today?
- Wastewater 101
- Existing Wastewater Facilities
- Typical Concerns
- Aesthetics and Technology
- Study Area and Optimal Site Characteristics
- Site Selection Criteria and Public Input
- Future Public Meetings/Approval Process
- Project Team Contacts



# Project Team





## Why Are We Meeting Today?

- Optimize existing conveyance system
  - Salt Valley Sewers will reach capacity within the next 20-30 years
  - Expansion would require construction in existing, built corridor – cost prohibitive
- City growth will require a new facility in the SW portion of town – most cost effective option
- Land should be purchased now while available and before area is developed



## Why Are We Meeting Today?

- Review the study area – Southwest Lincoln
- Present site selection criteria
- Receive your feedback on the siting criteria
- Community involvement





# Wastewater Collection Overview

## TRACKING THE WASTEWATER

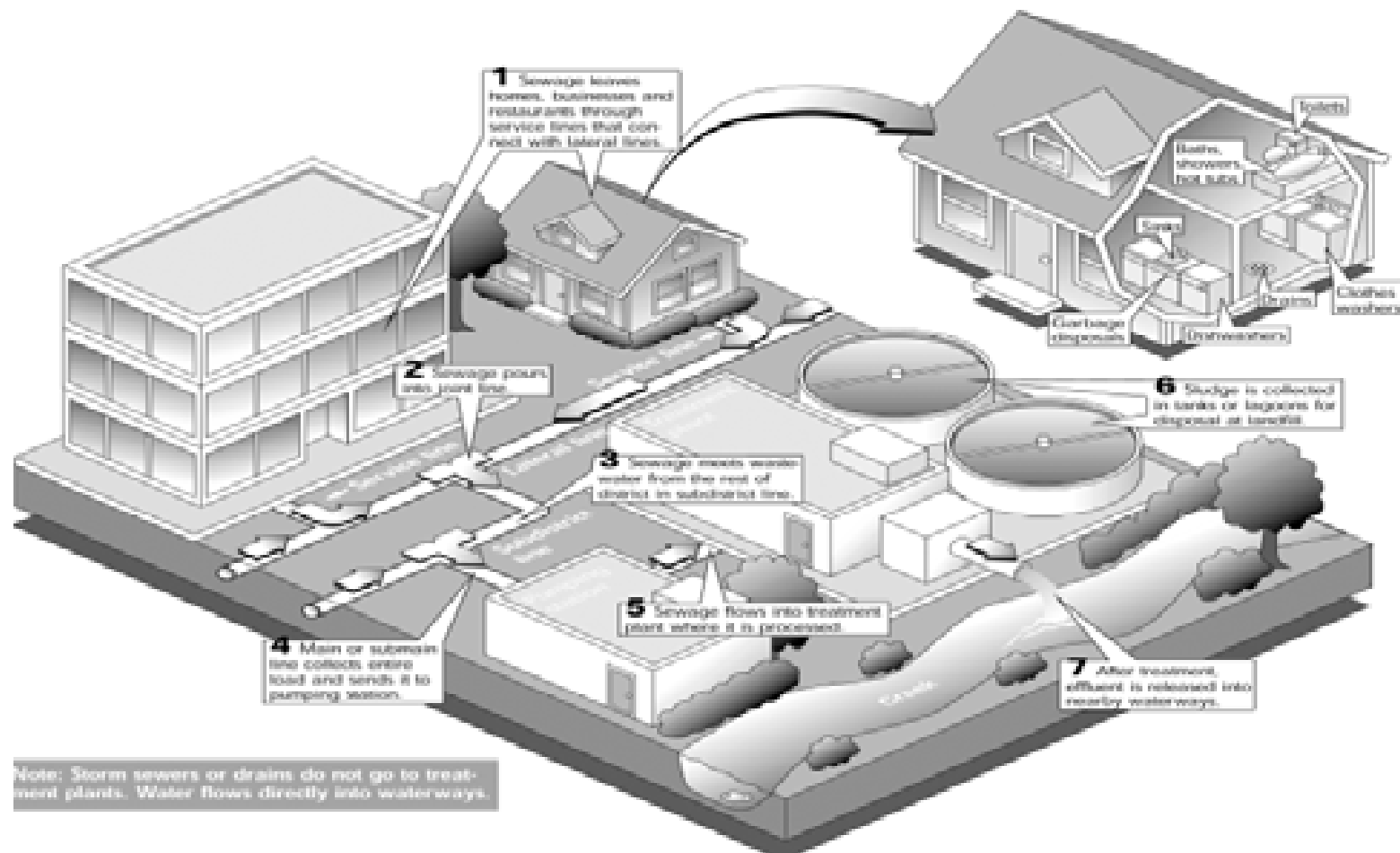
Sewage, which is almost all water, contains material such as chemicals and bacteria. Only a tenth of 1 percent is solid matter.

Through gravity and pumps, sewage is moved through a system of pipes from houses and businesses to a treatment plant.

## HOT SPOTS

### Sources of sewage in your home

Wastewater originates from many sources in your home. Here are some of the more common points.



Note: Storm sewers or drains do not go to treatment plants. Water flows directly into waterways.



## Holding Basins – Tulsa, Oklahoma





## Holding Basins – Lawrence, Kansas









## Theresa Street WWTF – 1960's





## Theresa Street WWTF - 2005





# Indian Creek Middle Basin WWTF

## Johnson County, Kansas





## Typical Concerns Associated with Wastewater Treatment Facilities

- Generation of Odors
- Stream Impacts
- Aesthetics
- Noise
- Facility and Site Lighting
- Truck Traffic and Disposal of Residuals
- Property Value Impacts



## Architectural Styles and Site Utilization Will Blend the Facility with the Environment





# Aesthetics and Technology

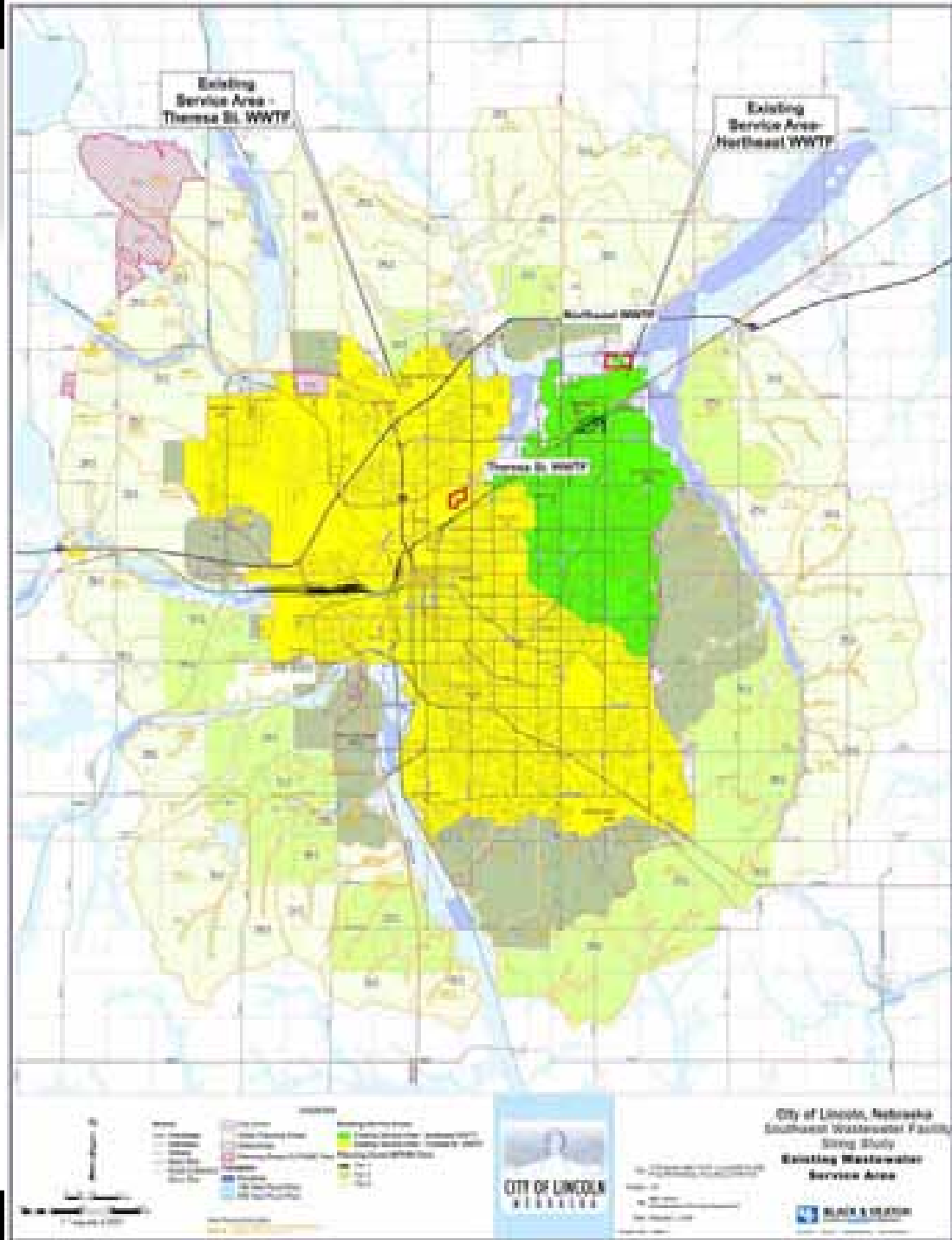
- Future technology will advance even beyond the aesthetic options that are available today



Space-Saving  
Technologies



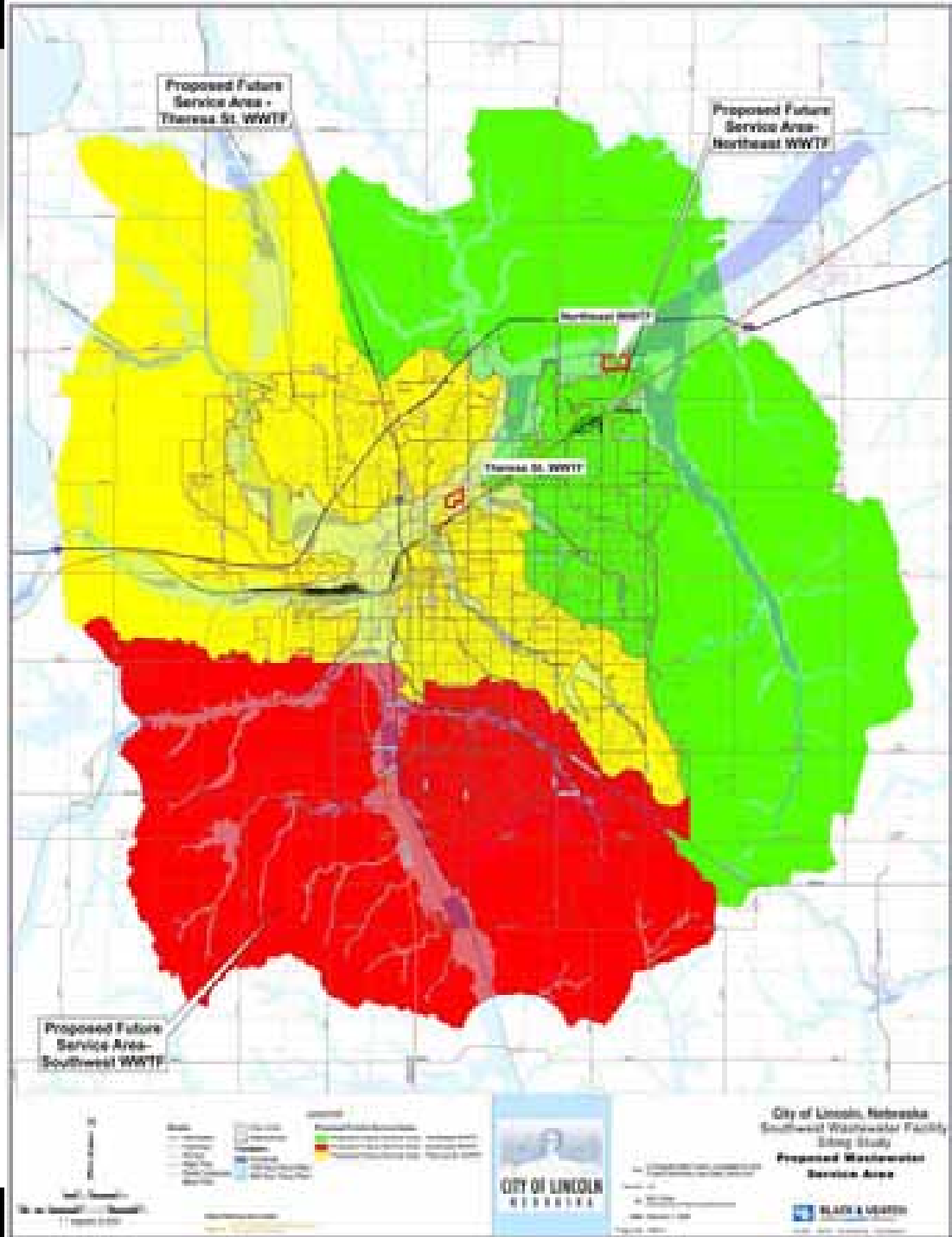
# Existing Service Area







# Proposed Future Service Area







## Optimal Site Characteristics

- Facility site area
  - 10-50 acres for a holding basin
  - 50-140 acres for a treatment facility
- Large area served by gravity sewers (low elevation sites)
- Good buffer area between facility and neighborhoods
- Has minimum adverse impacts to the public and environment

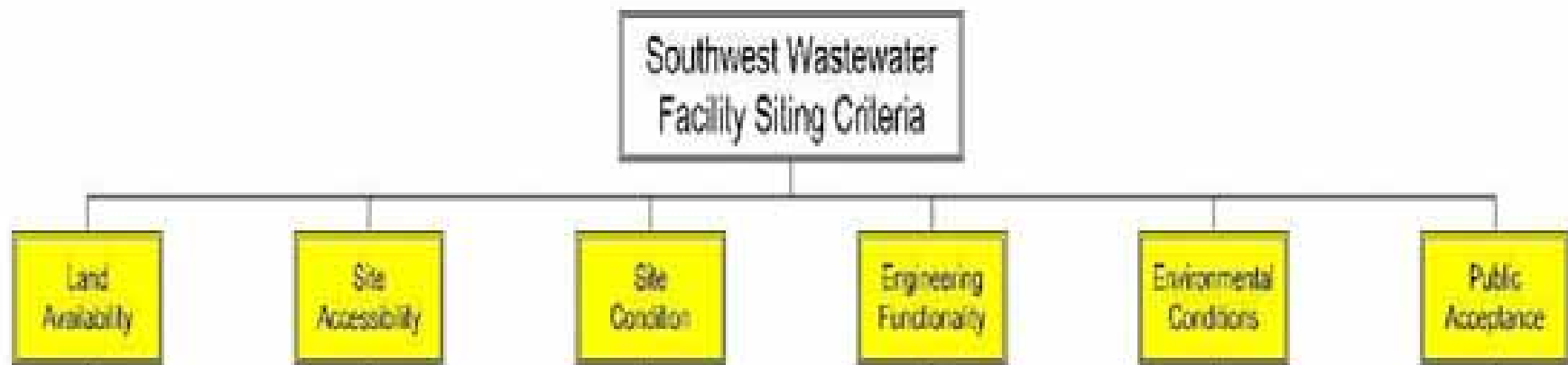


# Site Selection Criteria

City of Lincoln  
Southwest Wastewater Facility Siting Study

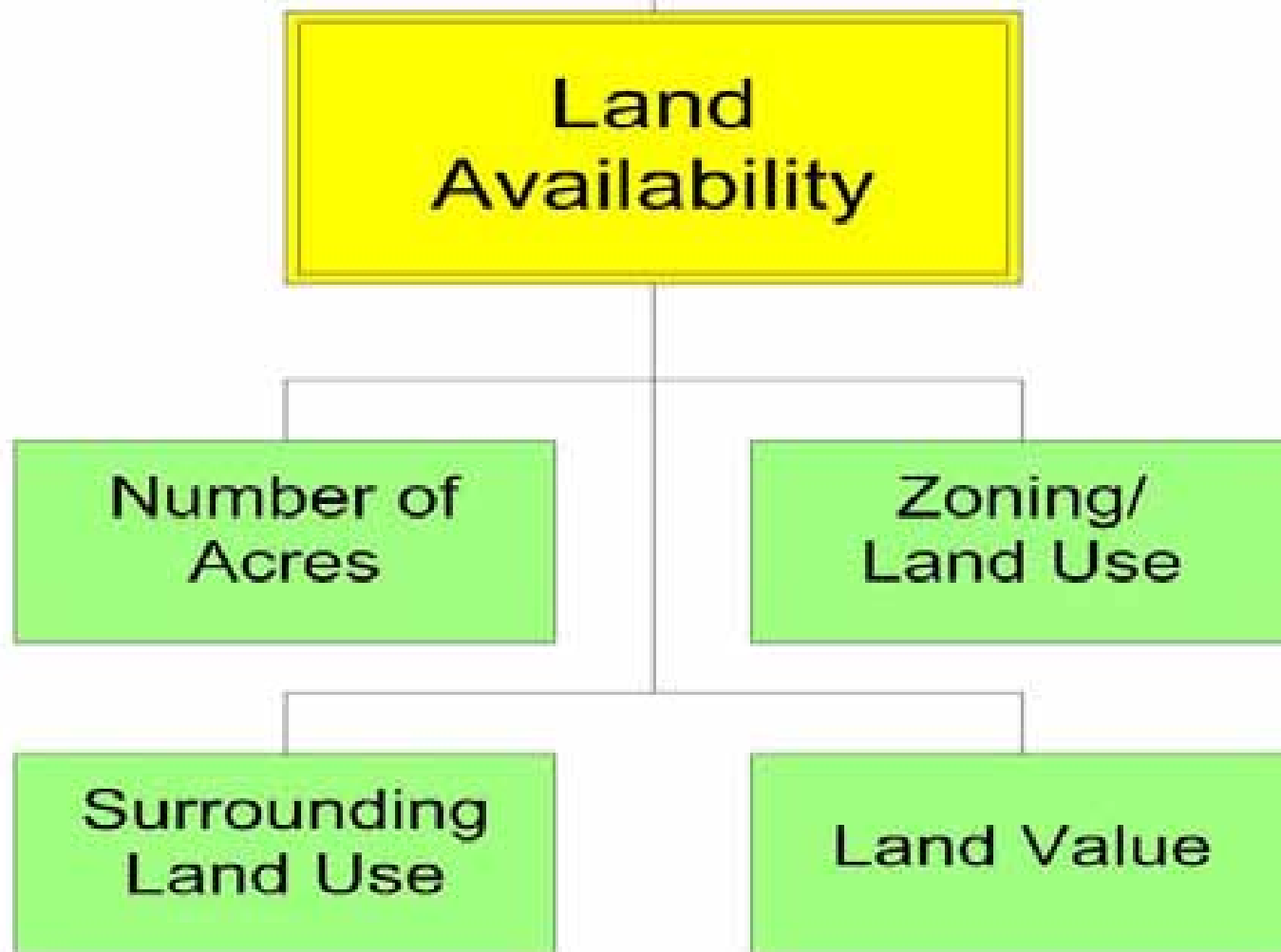


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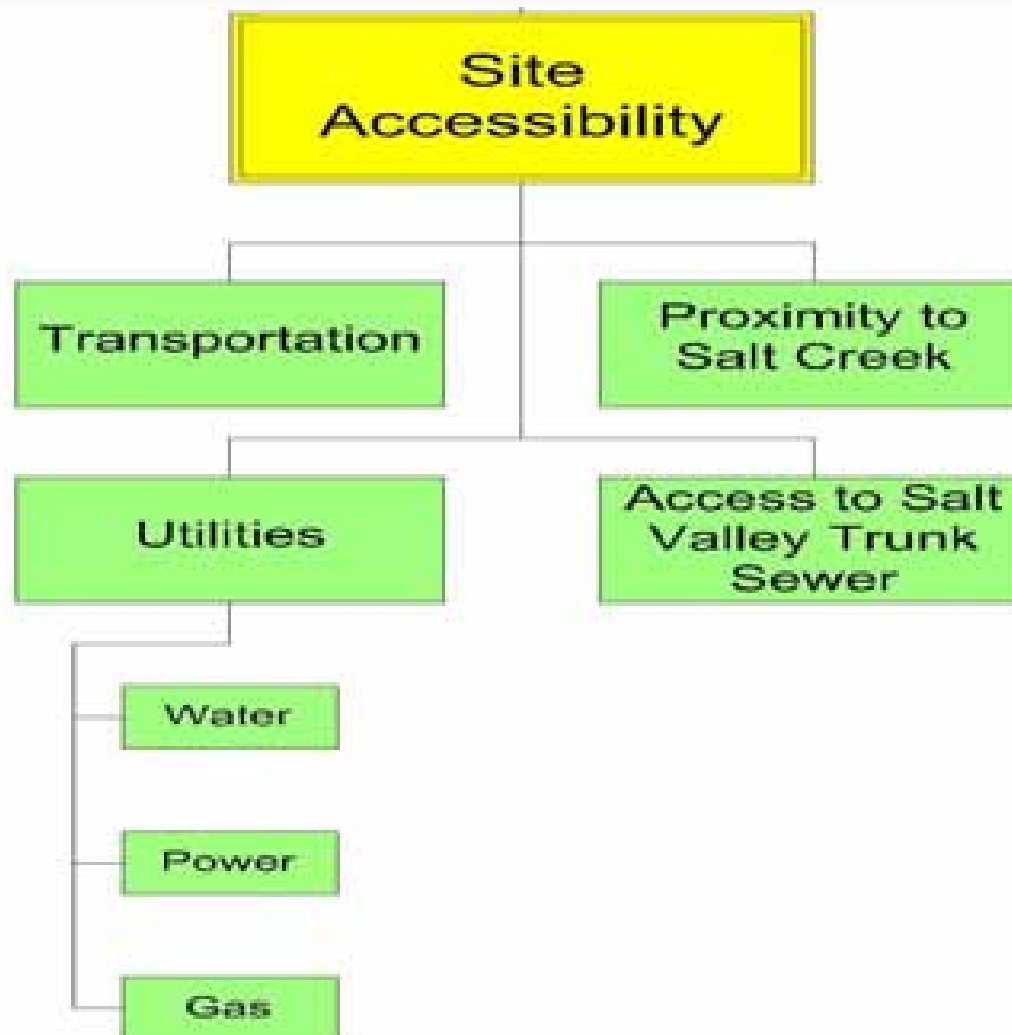


## Site Selection Criteria – Land Availability



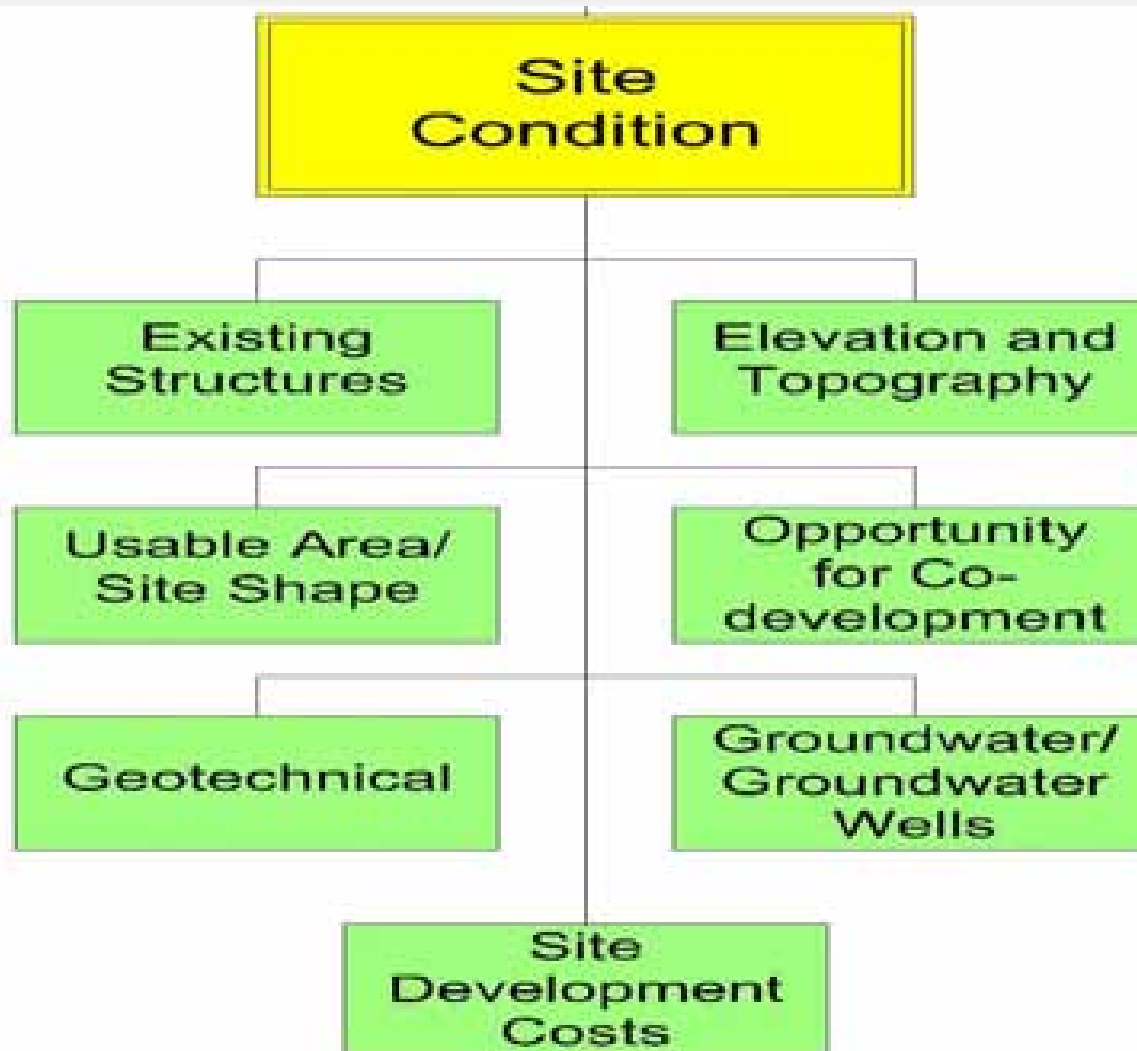


## Site Selection Criteria – Site Accessibility



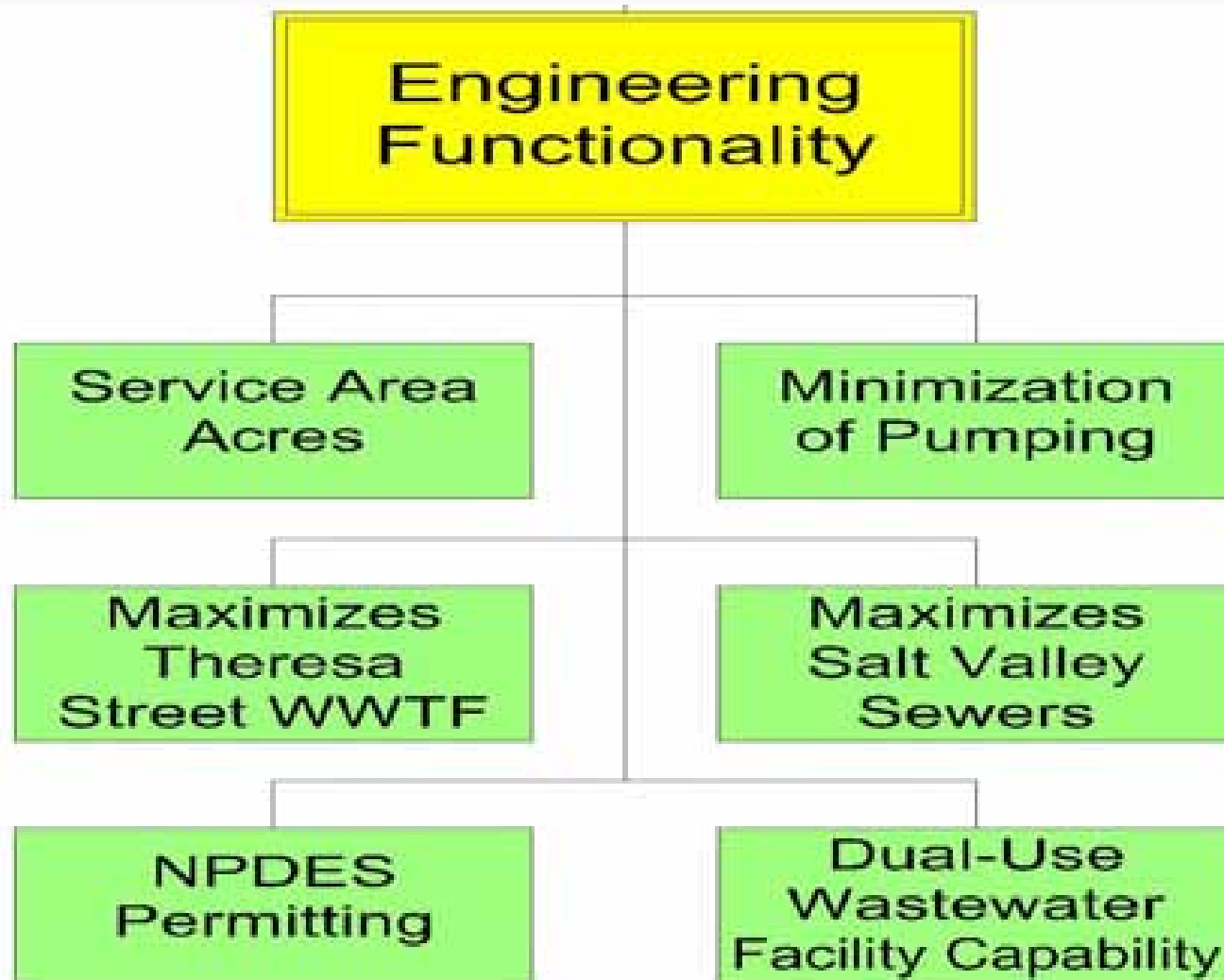


## Site Selection Criteria – Site Condition





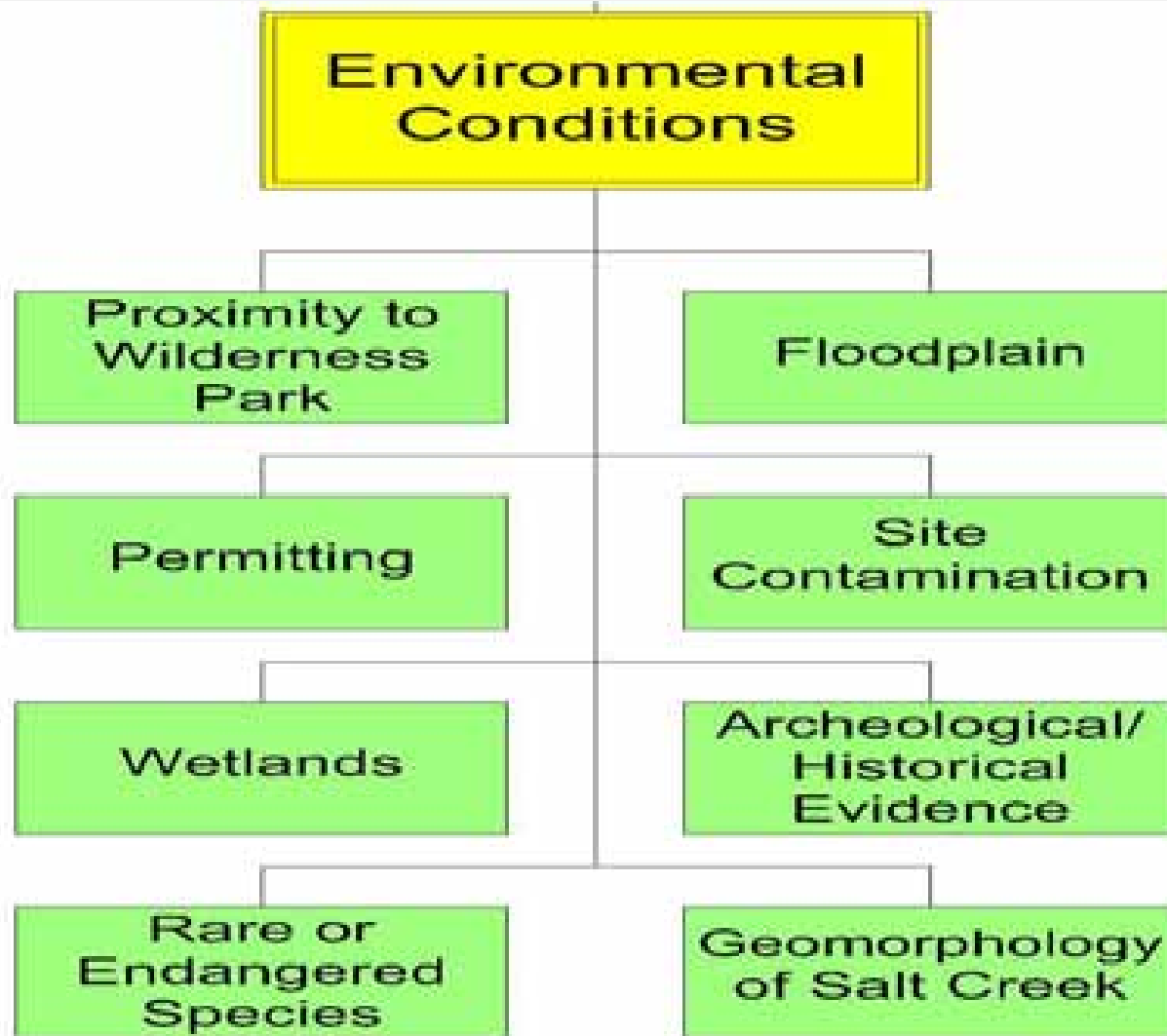
## Site Selection Criteria – Engineering Functionality





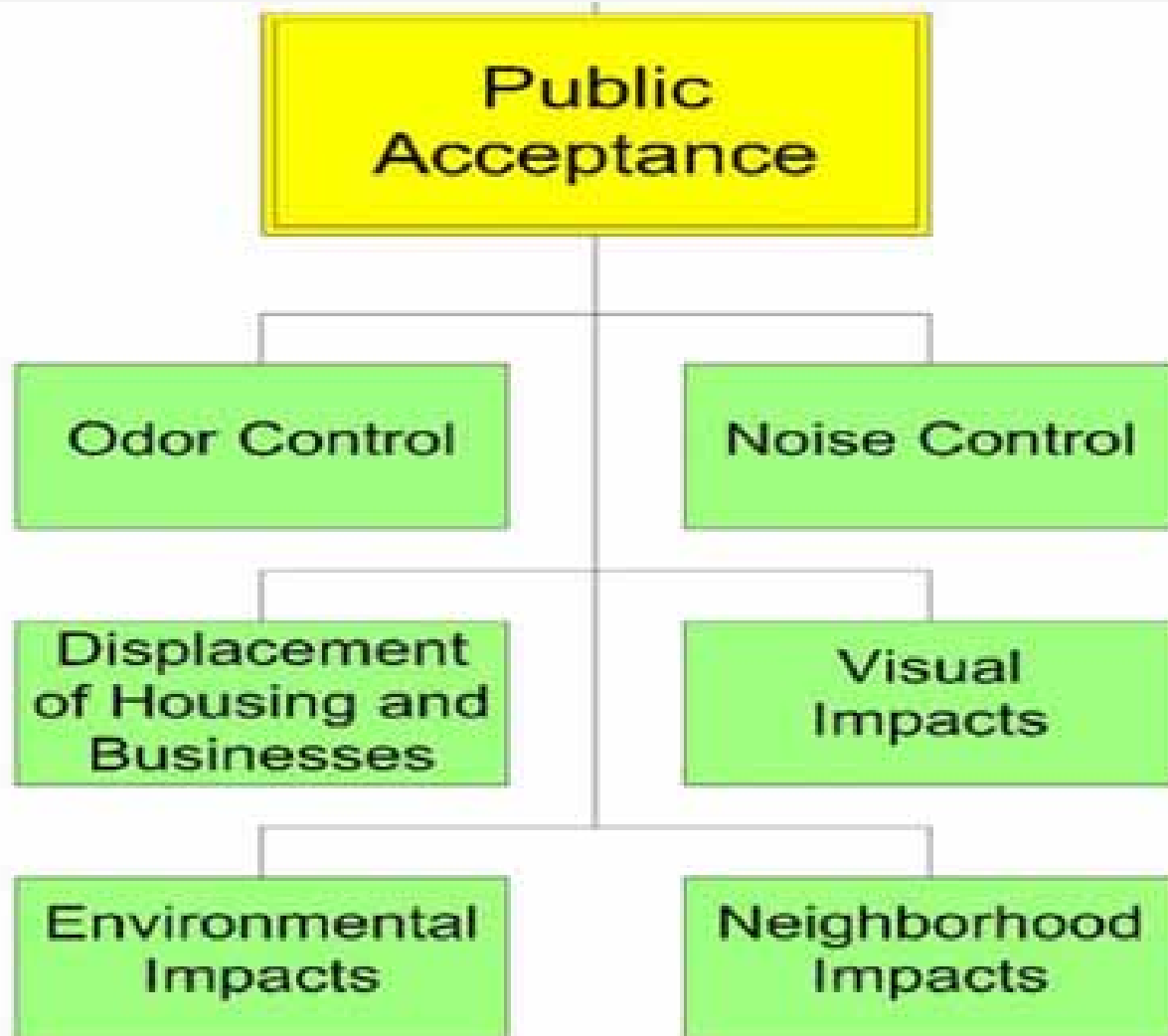


## Site Selection Criteria – Environmental Conditions





## Site Selection Criteria – Public Acceptance





## Public Input into Criteria

- Public acceptability factors
- Site utilization
- Appearance



**Stakeholders' participation  
is vital**



## **Future Public Meetings/Approval Process**

- Public Meeting No. 2 – March 15, 2006
  - Present 4-5 possible sites
- Public Meeting No. 3 – June 2006
  - Present final site
- Recommendation will go before Planning Commission and City Council for approval



## Project Team Contacts

- Project Website

- [www.lincoln.ne.gov](http://www.lincoln.ne.gov) keyword: swwf
- <http://www.lincoln.ne.gov/city/pworks/waste/wstwater/projects/swwf/index.htm>

- Lincoln Wastewater System

- Brian Kramer 402-441-7987

- Black & Veatch

- Matt Schultze 913-458-3597

- Olsson Associates

- Holly Johnson 402-474-6311

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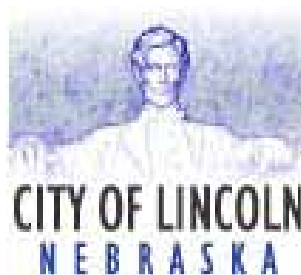


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## Questions and Answers



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## Northeast WWTF

